

Notice of Allowability

Application No.

09/730,515

Examiner

NABIL Z. HINDI

Applicant(s)

KURODA ET AL.

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the response dated January 22, 2008.
2. ☒ The allowed claim(s) is/are 1, 2, 5-7, 9, 10 and 12-20 renumbered as claims 1-16.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

NABIL HINDI
PRIMARY EXAMINER
GROUP 2500

11/4/73
2/14/68

Figs. 2a and 2b are schematic diagrams showing examples of prepits formed on the disc;

Fig. 3^{3A} is a diagram showing a manufacturing process of the disc;

5 Fig. 4 is a diagram showing a cutting machine of the disc using a laser beam;

Figs. 5a and 5b are diagrams showing a reading system to which the present invention is applied;

Fig. 6^{6A} is a diagram showing signals read out by the
10 reading system with respect to the conditions of the disc;

Fig. 7 is a diagram showing output characteristics of a push-pull signal and an RF signal with respect to depth of a groove;

15 Figs. 8a and 8b are diagrams showing a reading system of a second embodiment of the present invention;

Figs. 9a and 9b are diagrams showing a reading system of a third embodiment of the present invention;

Fig. 10 is an explanatory diagram showing signals
20 for producing a groove pit canceling signal of the third embodiment;

Figs. 11a and 11b are diagrams showing a reading system of a fourth embodiment of the present invention;

Fig. 12 is a diagram showing power of a laser beam;
25 and

Fig. 13 is an explanatory diagram showing signals for producing a groove pit canceling signal of the fourth embodiment.

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